



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs

2017 Activity Report by Standing Committee on Engineering for Innovative Technologies

GONG Ke



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs

**Building an international team
of the committee with the help
of national members**



REGION	No.	Country
America	3	Brazil, Peru, Mexico
Europe	7	UK, France, Czech, Slovenia, Russia, Spain
Africa	7	Nigeria, Congo, South Africa, Zimbabwe, Ghana, Rwanda
Asia	14	China, India, Korea, Pakistan, Qatar, Iraq, Nepal, Bangladesh, Singapore, Malaysia
Arab region	4	Kuwait
Total	35	26

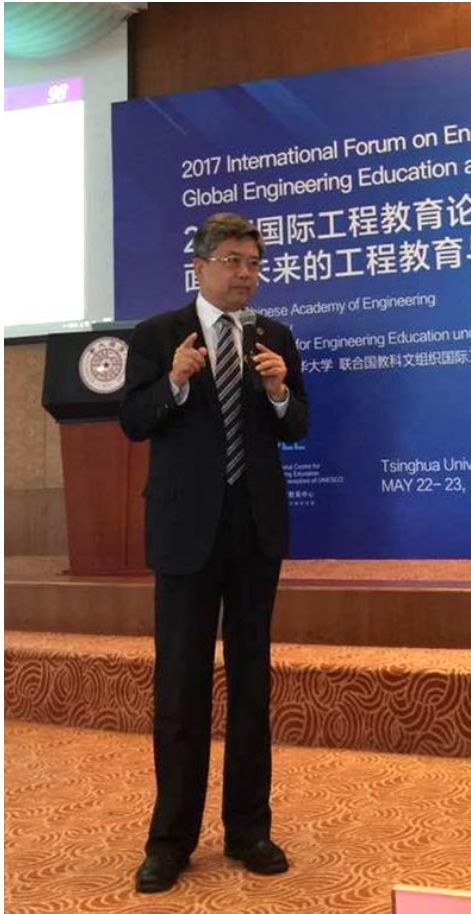




World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



Increasing the visibility and influence of WFEO



Keynote speech on **“Sustainability: Major Challenges to Engineering Capacity Building”** on UNESCO Engineering Education Forum



Proposing international project of **sky-based earth quake prediction** on WECDRR 2016



Keynote speech on the **“green cloud computation”** on CCC 2017





World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs



Talk on “artificial intelligence’s influence to the sustainable development” on the 1st WIC



UNESCO Africa Engineering Sept. 2017

3rd European Engineers Day, Oct. 2017





Delphi Study on Most Important Innovative Technologies for SDGs

Two rounds of Delphi have been conducted with 200 experts in WFEO-CEI steering committee on the 9 technologies evaluated each technology time of world wide application and contribution to each sustainable development

Study

9 Key Innovative Technologies

- Big Data
- Bio-Engineering
- Intelligent Technologies
- Internet of Things
- Micro-reaction Technology
- Nanotechnology
- Solar and Renewable Energy
- Space and Weather Satellite
- Water Treatment

(In Alphabetical Order)

After 3 months' collection of first round feedbacks from WFEO experts, 200 are listed covering the fields of environment, energy, water treatment and intelligent technologies (ICT). We cannot express our appreciation for all experts' contribution.

The steering committee have discussed all these technologies, filtered out the following 9 technologies. For example, we categorize "Solar Power" as "Renewable Energy", "Smart Cities" to "Intelligent Technologies". We advise that contribute to the realization of SDGs but not belong to technology. These innovative technologies act as the result of the first round survey (Delphi).

s in mind. On
renewable eng
st water desal

d technology's

/ form.
April 30, 2017.

e will send you the f



Future Activities

- **Side-meeting on IGF 2017: Geneva, Switzerland, 18-19 Dec.**
 - a) December 18 (10:10-11:40) Room XXII-E Theme: **Internet + Big Data Governance for Poverty Alleviation and Environment**
 - b) December 18 (9:00-10:30) Room XXIV-E Theme: **Policy Challenges for AI Development**
 - c) December 19 (15:00-16:30) Room XXIV-E Theme: **Governance Innovation in the Age of Sharing Economy**
 - d) December 19 (16:30-18:00) Room XXII-E Theme: **Internet of Things for Smart City**
- **The 2nd World Intelligence Congress, Tianjin, China, May 2018.**
- **The 10th China Cloud Computing Conference, Beijing, China, June 2018.**
- **Joint activities with CIC and WIE**



World Federation of Engineering Organizations
Fédération Mondiale des Organisations d'Ingénieurs

**Thank you and welcome
to your
comments and suggestions**